NC/QC/DP-W14/2019-20/CC-C1 Date: 06-06-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**252 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.94 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.07 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**27.98 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/DP-W14/2019-20/CC-PCC1 Date: 06-06-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	61.14	0 -20	30- 70
10mm	24.70	0 -5	10- 35
4.75mm	4.15	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.75	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	81.05	60-95	75-100	85-100	
01.18	64.90	30-70	55-90	75-100	
600.mic	48.40	15-34	35-59	60-79	
300.mic	16.25	5-20	8-30	12-40	
150.mic	7.65	0-10	0-10	0-10	

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NC/QC/DP-W14/2019-20/CC-C2 Date: 12-06-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**282 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.11 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.06 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.21 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/DP-W14/2019-20/CC-PCC2 Date: 12-06-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	67.10	0 -20	30- 70
10mm	31.40	0 -5	10- 35
4.75mm	3.75	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.95	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.20	60-95	75-100	85-100	
01.18	71.05	30-70	55-90	75-100	
600.mic	52.80	15-34	35-59	60-79	
300.mic	25.30	5-20	8-30	12-40	
150.mic	7.15	0-10	0-10	0-10	

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NC/QC/DP-W14/2019-20/CC-C3 Date: 17-06-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**171 min**	Shall not be less than 30 min
2	Final setting time	**282 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.86 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.99 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**28.51 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/DP-W14/2019-20/CC-PCC3 Date: 17-06-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	58.40	0 -20	30- 70
10mm	25.85	0 -5	10- 35
4.75mm	4.25	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.15	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.60	60-95	75-100	85-100	
01.18	65.20	30-70	55-90	75-100	
600.mic	39.45	15-34	35-59	60-79	
300.mic	23.75	5-20	8-30	12-40	
150.mic	7.30	0-10	0-10	0-10	

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NC/QC/DP-W14/2019-20/CC-C4 Date: 14-06-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**169 min**	Shall not be less than 30 min
2	Final setting time	**254 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.82 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.96 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**27.82 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/DP-W14/2019-20/CC-FA1 **Date: 14-06-2019**

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.25**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.90**	60-95	75-100	85-100	
01.18	**58.10**	30-70	55-90	75-100	
600. mic	**51.40**	15.34	35-59	60-79	
300.mic	**26.85**	5-20	8-30	12-40	
150.mic	**8.35**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**16.17 %**	-----
2	Silt Content	----	**0.62 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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Page No. 1/1,

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NC/QC/DP-W14/2019-20/CC-CA1 Date: 14-06-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.10	85-100	90 - 100
10 mm	29.45	0 - 20	25 - 55
4.75 mm	6.10	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.10 %	Not to exceed 25 %
2.	Crushing value	27.95 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/DP-W14/2019-20/CC-CB1 Date: 26-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-06-19	26-06-19	07	22500	295	13.11	13.48
	002	"	"	"	"	310	13.78	
	003	"	"	"	"	305	13.56	

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NC/QC/DP-W14/2019-20/CC-CB2 **Date: 01-07-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	24-06-19	01-07-19	07	22500	300	13.33	**13.41**
	002	"	"	"	"	315	14.00	
	003	"	"	"	"	290	12.89	

Page No. 1/1,

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NC/QC/DP-W14/2019-20/CC-CB3 Date: 06-07-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-06-19	06-07-19	07	22500	285	12.67	12.96
	002	‘’	“	‘’	“	300	13.33	
	003	‘’	“	‘’	“	290	12.89	

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NC/QC/DP-W14/2019-20/CC-CB1A

Date: 17-07-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-06-19	17-07-19	28	22500	410	18.22	17.70
	002	‘’	“	‘’	“	395	17.56	
	003	‘’	“	‘’	“	390	17.33	

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NC/QC/DP-W14/2019-20/CC-CB2A

Date: 22-07-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	24-06-19	22-07-19	28	22500	405	18.00	**18.07**
	002	"	"	"	"	400	17.78	
	003	"	"	"	"	415	18.44	

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NC/QC/DP-W14/2019-20/CC-CB3A

Date: 27-07-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing CC Camera at Garbage Block Spots in Ward No. 14, Dasarahalli sub Division.}
Ref.: Material testing/QC/19-20,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Prakash.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-06-19	27-07-19	28	22500	390	17.33	**17.85**
	002	"	"	"	"	405	18.00	
	003	"	"	"	"	410	18.22	

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